Nevada Department of Conservation and Natural Resources • Division of Environmental Protection

BUREAU OF AIR POLLUTION CONTROL

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Facility ID No. A0001 DRAFT *Permit No.* AP1041-2141

CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS

Issued to: Barrick Cortez, Inc., hereafter called the Permittee
Mailing Address: HC 66 Box 1250, Crescent Valley, Nevada 89821-1250
Physical Address: HC 66 Box 1250, Crescent Valley, Nevada 89821-1250
General Facility Location: 38 Miles south of I-80 from Exit 261 (Beowawe exit) on State Route 306
Crescent Valley, Nevada
SECTIONS 1, 12; T26N; R47E MDB&M (HA 54, LANDER COUNTY)
SECTIONS 6, 7; T26N; R48E MDB&M (HA 54, LANDER COUNTY)
SECTIONS 1, 12; T27N; R46E MDB&M (HA 54, LANDER COUNTY)
SECTIONS 4-10, 13-18, 23-26, 35-36; T27N; R47E MDB&M (HA 54, LANDER COUNTY)
SECTIONS 25, 36; T28N; R46E MDN B&M (H54, LANDER COUNTY)
SECTIONS 28-33; T28N; R47E MDB&M (HA54, LANDER COUNTY)

CORTEZ OPERATIONS: NORTH 4,449.90 KM, EAST 532.55 KM, UTM (ZONE 11, NAD83)
PIPELINE OPERATIONS: NORTH 4,456.90 KM, EAST 524.00 KM, UTM (ZONE 11, NAD 83)

Emission Unit List:

A. System 1 – Pipeline Primary Metallic Ore Crushing System

PF	1.001	Truck Dump of Metallic Ore to Jaw Crusher Dump Pocket
PF	1.002	Jaw Crusher Dump Pocket transfer of Metallic Ore to Jaw Crusher Apron Feeder
PF	1.003	Jaw Crusher Apron Feeder transfer of Metallic Ore to Vibrating Grizzly Screen via Chute
PF	1.004	Vibrating Grizzly Screen (mfd. by Fister Machining Company, mdl# VEG 8420, s/n 64372)
PF	1.005	Vibrating Grizzly Screen transfer of Metallic Ore to Jaw Crusher (oversize)
PF	1.006	Vibrating Grizzly Screen transfer of Metallic Ore to Conveyor #1 (undersize)
PF	1.007	Jaw Crusher (mfd by Nordberg, mdl# R196-0027)
PF	1.008	Jaw Crusher transfer of Metallic Ore to 48”x580’ Conveyor #1

B. System 2 – Pipeline Metallic Ore Transfers

PF	1.009	48”x580’ Conveyor #1 transfer of Metallic Ore to 48”x375’ Conveyor #2
PF	1.010	48”x375’ Conveyor #2 (Stacker Conveyor) transfer of Metallic Ore to Metallic Ore Stockpile

C. System 3 – Pipeline Metallic Ore Transfers

PF	1.011	Apron Feeder #1 transfer of Metallic Ore to 42”x650’ Conveyor #3
PF	1.012	Apron Feeder #2 transfer of Metallic Ore to 42”x650’ Conveyor #3
PF	1.013	Emergency Apron Feeder transfer of Metallic Ore to 42”x650’ Conveyor #3

D. System 4 – Pipeline Metallic Ore Transfer

PF	1.014	42”x650’ Conveyor #3 transfer of Metallic Ore to SAG Mill

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Emission Unit List - continued

E. System 5 – Pipeline Wet Mill Crushing & Screening System

PF	1.015	SAG Mill and Metallic Ore transfer to SAG Mill Screens
PF	1.016	SAG Mill Screens and Metallic Ore transfer to Grinding Cyclones (undersize) and Conveyor #4 (oversize)
PF	1.017	Grinding Cyclones and Metallic Ore transfer to Ball Mill (oversize) and Trash Screens (undersize)
PF	1.018	Ball Mill and Metallic Ore transfer to Grinding Cyclones
PF	1.019	Trash Screens and Metallic Ore transfer to Surge Tank

F. System 6 – Pipeline Secondary Metallic Ore Crushing System

PF	1.020	Conveyor #4 transfer of Metallic Ore to Conveyor #5
PF	1.021	Conveyor #5 transfer of Metallic Ore to Cone Crusher
PF	1.022	Cone Crusher (mfd by Nordberg, mdl# 1560)
PF	1.023	Cone Crusher transfer of Metallic Ore to Conveyor #6
PF	1.024	Conveyor #6 transfer of Metallic Ore to Conveyor #3 (SAG Mill Feed Conveyor)

G. System 6A – Pipeline Secondary Metallic Ore Crushing System, Alternate Operating Scenario to System 6

PF	1.020A	Conveyor #4 transfer of Metallic Ore to Conveyor #5
PF	1.025	Conveyor #5 transfer of Metallic Ore to Scats Stockpile

H. System 6B – Pipeline Secondary Metallic Ore Crushing System, Alternate Operating Scenario to System 6

PF	1.020B	Conveyor #4 transfer of Metallic Ore to Conveyor #5
PF	1.026	Conveyor #5 transfer of Metallic Ore to Conveyor #6
PF	1.024B	Conveyor #6 transfer of Metallic Ore to Conveyor #3 (SAG Mill Feed Conveyor)

I. System 7 – Pipeline Wet Mill Lime Silo

S	2.001	Wet Mill Lime Silo pneumatic loading
PF	1.027	Wet Mill Lime Silo unloading to 42"x650' Conveyor #3 via enclosed Screw Conveyor

J. System 8 – Pipeline Refinery Induction Furnaces

S	2.002	Refinery Induction Furnace #1 (mfd by Inducto Therm, mdl# VIP Power Trak-R, s/n 80354)
S	2.003	Refinery Induction Furnace #2 (mfd by Inducto Therm, mdl# VIP Power Trak-R, s/n 59585-6-96)

K. System 9 – Pipeline Gold Sludge Dryer

S	2.004	Electric Gold Sludge Dryer Oven (mfd by The Grieve Corp., mdl# TBH-500)

L. System 9A – Reserved

S	2.005	Reserved
S	2.006	Reserved

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Emission Unit List - continued

M. System 10 – Pipeline Carbon Reactivation Kilns

S	2.007	Carbon Reactivation Kiln #1 (mfd by Lochhead Haggerty, mdl# B1, s/n 118-168)
S	2.008	Carbon Reactivation Kiln #2 (mfd by Lochhead Haggerty, mdl# B1, s/n 118-170)

N. System 11 – Pipeline Carbon Stripping Vessel Heaters

S	2.009	12.6 MMBtu/hr Propane-Fired Carbon Stripping Vessel Heater #1 (mfd by TFS, mdl# KV 2/50)
S	2.010	12.6 MMBtu/hr Propane-Fired Carbon Stripping Vessel Heater #2 (mfd by TFS, mdl# KV 2/50)
S	2.011	Removed

O. System 12 – Pipeline Mill 50 Ton Pebble Lime Silo

S	2.012	Pebble Lime Silo pneumatic loading
PF	1.028	Pebble Lime Silo unloading to enclosed Screw Conveyor

P. System 13 – Pipeline Assay Laboratory Sample Preparation

S	2.013a	Automatic Ring Pulverizer 1
S	2.013b	Automatic Ring Pulverizer 2
S	2.013c	Manual Ring Pulverizer 1
S	2.013d	Manual Ring Pulverizer 2
S	2.013e	Manual BICO Disk Pulverizer
S	2.013f	Automatic Jaw Crusher/Pulverizer/Splitter 1
S	2.013g	Automatic Jaw Crusher/Pulverizer/Splitter 2
S	2.013h	Manual Rhino Jaw Crusher 1
S	2.013i	Manual Splitter 1
S	2.013j	Reject Conveyor
S	2.013k	Manual Rhino Jaw Crusher 2
S	2.013l	Manual Splitter 2
S	2.013m	Manual Splitter 3
S	2.013n	Automatic Jaw Crusher/Pulverizer/Splitter 3
S	2.013o	Manual Jaw Crusher
S	2.013p	Gilson Screen Deck

Q. System 14 – Pipeline Assay Laboratory Furnaces

S	2.018a	Fire Assay Fusion Furnace 1, mfd by DFC Ceramics, mdl# 810B
S	2.018b	Fire Assay Fusion Furnace 2, mfd by DFC Ceramics, mdl# 810B
S	2.018c	Fire Assay Fusion Furnace 3, mfd by DFC Ceramics, mdl# 810B
S	2.018d	Fire Assay Fusion Furnace 4, mfd by DFC Ceramics, mdl# 810B
S	2.018e	Fire Assay Fusion Furnace 5, mfd by DFC Ceramics, mdl# 810B
S	2.018f	Fire Assay Fusion Furnace 6, mfd by DFC Ceramics, mdl# 810B
S	2.018g	Fire Assay Lab Modular Furnace, mfd by MAS

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Emission Unit List – continued

R. System 15 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario

PF	1.029	Truck Dump of Metallic Ore to Primary Jaw Crusher with Grizzly
PF	1.030	Primary Jaw Crusher (mfd by El-Russ Aggregate Systems)
PF	1.031	Primary Jaw Crusher transfer of Metallic Ore to Conveyor C-1
PF	1.032	Conveyor C-1 transfer of Metallic Ore to Conveyor C-2
PF	1.033	Conveyor C-2 transfer of Metallic Ore to 3-Deck Screen
PF	1.034	3-Deck Screen (mfd by El-Russ Aggregate Systems)
PF	1.035	3-Deck Screen transfer of Metallic Ore to Conveyor C-3
PF	1.036	3-Deck Screen transfer of Metallic Ore to Conveyor C-6
PF	1.037	3-Deck Screen transfer of Metallic Ore to Conveyor C-9

S. System 15A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario

PF	1.029A	Truck Dump of Aggregate to Primary Jaw Crusher with Grizzly
PF	1.030A	Primary Jaw Crusher (mfd by El-Russ Aggregate Systems)
PF	1.031A	Primary Jaw Crusher transfer of Aggregate to Conveyor C-1
PF	1.032A	Conveyor C-1 transfer of Aggregate to Conveyor C-2
PF	1.033A	Conveyor C-2 transfer of Aggregate to 3-Deck Screen
PF	1.034A	3-Deck Screen (mfd by El-Russ Aggregate Systems)
PF	1.035A	3-Deck Screen transfer of Aggregate to Conveyor C-3
PF	1.036A	3-Deck Screen transfer of Aggregate to Conveyor C-6
PF	1.037A	3-Deck Screen transfer of Aggregate to Conveyor C-9

T. System 16 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario

PF	1.038	Conveyor C-9 transfer of Metallic Ore to Conveyor C-10
PF	1.039	Conveyor C-10 transfer of Metallic Ore to Secondary Cone Crusher
PF	1.040	Secondary Cone Crusher (mfd by Allis, mdl# H4000)
PF	1.041	Secondary Cone Crusher transfer of Metallic Ore to Conveyor C-11
PF	1.042	Conveyor C-11 transfer of Metallic Ore to 3-Deck Screen (PF1.033)

U. System 16A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario

PF	1.038A	Conveyor C-9 transfer of Aggregate to Conveyor C-10
PF	1.039A	Conveyor C-10 transfer of Aggregate to Secondary Cone Crusher
PF	1.040A	Secondary Cone Crusher (mfd by Allis, mdl# H4000)
PF	1.041A	Secondary Cone Crusher transfer of Aggregate to Conveyor C-11
PF	1.042A	Conveyor C-11 transfer of Aggregate to 3-Deck Screen (PF1.033A)

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Emission Unit List - continued

V. System 17 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario

PF	1.043	Conveyor C-3 transfer of Metallic Ore to Conveyor C-4
PF	1.044	Conveyor C-4 transfer of Metallic Ore to Radial Stacker C-5
PF	1.045	Radial Stacker C-5 transfer of Metallic Ore to Coarse Ore Stockpile
PF	1.046	Conveyor C-6 transfer of Metallic Ore to Conveyor C-7
PF	1.047	Conveyor C-7 transfer of Metallic Ore to Radial Stacker C-8
PF	1.048	Radial Stacker C-8 transfer of Metallic Ore to Crushed Ore Stockpile

W. System 17A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario

PF	1.043A	Conveyor C-3 transfer of Aggregate to Conveyor C-4
PF	1.044A	Conveyor C-4 transfer of Aggregate to Radial Stacker C-5
PF	1.045A	Radial Stacker C-5 transfer of Aggregate to Coarse Aggregate Stockpile
PF	1.046A	Conveyor C-6 transfer of Aggregate to Conveyor C-7
PF	1.047A	Conveyor C-7 transfer of Aggregate to Radial Stacker C-8
PF	1.048A	Radial Stacker C-8 transfer of Aggregate to Crushed Aggregate Stockpile

X. System 18 – A28 Heap Leach Lime Silo – MOVED to New Location August 2011

S	2.019	A28 Heap Leach Lime Silo pneumatic or A28 Bucket Elevator loading
PF	1.049	A28 Lime Silo Reclaim transfer to A28 Conveyor #2
PF	1.050	A28 Conveyor #2 transfer to A28 Weigh Hopper
PF	1.051	A28 Weigh Hopper transfer to Truck
PF	1.052	A28 Truck Dump transfer to A28 Truck Dump Pocket
PF	1.053	A28 Truck Dump Pocket transfer to A28 Conveyor #1
PF	1.054	A28 Conveyor #1transfer to A28 Bucket Elevator

Y. System 18A – Pipeline A28 Heap Leach Lime Silo, Alt Loading Scenario to System 18 – REMOVED

Z. System 19 – A30 Heap Leach Lime Silo

S	2.021	A30 Heap Leach Lime Silo pneumatic or A30 Bucket Elevator loading
PF	1.055	A30 Lime Silo Reclaim transfer to A30 Conveyor #2
PF	1.056	A30 Conveyor #2 transfer to A30 Weigh Hopper
PF	1.057	A30 Weigh Hopper transfer to Truck
PF	1.058	A30 Truck Dump transfer to A30 Truck Dump Pocket
PF	1.059	A30 Truck Dump Pocket transfer to A30 Conveyor #1
PF	1.060	A30 Conveyor #1 transfer to A30 Bucket Elevator

AA. System 19A – Pipeline A30 Heap Leach Lime Silo, Alt Loading Scenario to System 19 – REMOVED

AB. System 20 – Gold Acres 20 Ton Lime Silo - REMOVED

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Emission Unit List - continued

AC. System 21 – Cortez Mill Primary Metallic Ore Crushing System - REMOVED

AD. System 22 – Cortez Mill Secondary Metallic Ore Crushing System - REMOVED

AE. System 23 – Cortez Mill Metallic Ore Transfers - REMOVED

AF. System 23A – Cortez Mill Metallic Ore Transfers, Alternate Operating Scenario to System 23 - REMOVED

AG. System 24 – Cortez Mill Metallic Ore Transfer - REMOVED

AH. System 25 – Cortez Mill CIP Lime Silo - REMOVED

AI. System 26 – Cortez Mill Wet Crushing & Screening System - REMOVED

AJ. System 27 – Cortez Mill 100 Ton Leach Lime Silo - REMOVED

AK. System 28 – Cortez Underground Shotcrete Plant – Cement Transfers - REMOVED

AL. System 29 – Cortez Underground Shotcrete Plant – Aggregate Transfers - REMOVED

AM. System 30 – Cortez Hills 100 Ton Leach Lime Silo - REMOVED

AN. System 31 – Cortez Hills Metallic Ore Crushing System

S	2.028	Loader transfer of Metallic Ore to Jaw Crusher Dump Pocket
S	2.029	Jaw Crusher Dump Pocket transfer of Metallic Ore to Jaw Crusher
S	2.030	Jaw Crusher
S	2.031	Jaw Crusher transfer of Metallic Ore to Surge Pocket/Apron Feeder
S	2.032	Apron Feeder transfer of Metallic Ore to Discharge Conveyor #1
S	2.033	Discharge Conveyor #1 transfer of Metallic Ore to Discharge Conveyor #2

AO. System 32 – Cortez Hills Metallic Ore Overland Conveying System

S	2.034	Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1
S	2.035	Overland Conveyor #1 transfer of Metallic Ore to Overland Conveyor #2
S	2.036	Overland Conveyor #2 transfer of Metallic Ore to Overland Conveyor #3
S	2.037	Overland Conveyor #3 transfer of Metallic Ore to Overland Conveyor #4
S	2.038	Overland Conveyor #4 transfer of Metallic Ore to Stacker Conveyor (Conveyor #2 in System 2)

AP. System 32A – Cortez Hills Metallic Ore Overland Conveying System, Alt Operating Scenario to System 32

S	2.034A	Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1
PF	1.093	Overland Conveyor #1 transfer of Metallic Ore to Metallic Ore Bypass Stockpile

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Emission Unit List – continued

AQ. System 33 – Cortez Underground Backfill Plant – Aggregate Transfers - REMOVED

AR. System 34 – Cortez Underground Backfill Plant – Cement Transfers - REMOVED

AS1. System 35A – Cortez Hills Aggregate Crushing System – Primary Crusher Pocket - REMOVED

AS2. System 35B – Cortez Hills Aggregate Crushing System – Primary Crusher - REMOVED

AS3. System 35C – Cortez Hills Aggregate Crushing System – Primary Crusher Transfer - REMOVED

AT1. System 36A – Cortez Hills Aggregate Crushing System – Primary Screen - REMOVED

AT2. System 36B – Cortez Hills Aggregate Crushing System – Secondary Screen - REMOVED

AU1. System 37A – Cortez Hills Aggregate Crushing System – Cone Crusher - REMOVED

AU2. System 37B – Cortez Hills Aggregate Crushing System – Cone Crusher Transfer - REMOVED

AV1. System 38A – Cortez Hills Aggregate Crushing System – Conveyor Transfers - REMOVED

AV2. System 38B – Cortez Hills Aggregate Crushing System – Conveyor Transfers - REMOVED

AW. System 39 – Cortez Mill Soil Remediation

S	2.040	1.5 MMBtu/hr Soil Therm Thermal/Catalytic Oxidizer Soil Vapor Extraction Unit
S	2.041	1.5 MMBtu/hr Soil Therm Thermal/Catalytic Oxidizer Soil Vapor Extraction Unit

AX. System 40 – Cortez Mill Groundwater Remediation

PF	1.112	Shallow Tray Groundwater Air Stripper, 50 GPM Water Flow

AY1. System 41A – Cortez Hills Main Batch Plant – Aggregate Transfers

PF	1.113	Loading of Aggregate to Coarse Aggregate Bin
PF	1.114	Coarse Aggregate Bin discharge to Coarse Aggregate Conveyor
PF	1.115	Coarse Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.116	Loading of Aggregate to Fine Aggregate Bin
PF	1.117	Fine Aggregate Bin discharge to Fine Aggregate Conveyor
PF	1.118	Fine Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.119	Loading of Aggregate to Shotcrete Aggregate Bin
PF	1.120	Shotcrete Aggregate Bin discharge to Shotcrete Aggregate Conveyor
PF	1.121	Shotcrete Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.122	Aggregate Weigh Hopper Feed Conveyor transfer to Aggregate Weigh Hopper
PF	1.123	Aggregate Weigh Hopper discharge to Mixer Feed Conveyor
PF	1.124	Mixer Feed Conveyor transfer of Aggregate to Mixer

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Emission Unit List – continued

AY2. System 41B – Cortez Hills Main Batch Plant – Aggregate Heater

S	2.046	5.4 MMBtu/hr Propane-Fired Aggregate Heater (mfd by American Geothermal, mdl# D30)

AZ. System 42 – Cortez Hills Main Batch Plant – Silo Transfers

S	2.042	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
PF	1.125	Silo #1 unloading to Cement Batcher #1
S	2.043	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2
PF	1.126	Silo #2 unloading to Cement Batcher #2

BA. System 43 – Cortez Hills Back-Up Batch Plant – Aggregate Transfers - REMOVED

BB. System 44 – Cortez Hills Back-Up Batch Plant – Silo Loading - REMOVED

BC. System 45 – Cortez Hills Back-Up Batch Plant – Central Mixer Loading - REMOVED

BD. System 46 – Cortez Hills Metal Removal Plant – Metallic Ore Transfers

PF	1.130	Loading of Metallic Ore to Feed Hopper
PF	1.131	Feed Hopper discharge of Metallic Ore to Conveyor #1
PF	1.132	Conveyor #1 transfer of Metallic Ore to Conveyor #2
PF	1.134	Conveyor #2 transfer of Metallic Ore to Conveyor #3
PF	1.133	Conveyor # 3 transfer of Metallic Ore to Metallic Ore Stockpile

BE. System 47 – Cortez Hills Underground Mine Shaft Heaters – REMOVED (classified as trivial activities)

BF1. System 48A – Cortez Hills Metal Sampling Plant – Primary Crusher

PF	1.147	Metal Removal Plant Conveyor #2 transfer of Ore to Sample Conveyor S1
PF	1.148	Primary Crusher and associated transfers in (Sample Conveyor S1) and out (Sample Conveyor S2)

BF2. System 48B – Cortez Hills Metal Sampling Plant – Secondary Crusher

PF	1.149	Secondary Crusher and associated transfers in (Sample Conveyor S2) and out (Sample Conveyor S3)
PF	1.150	Sample Conveyor S3 transfer of Ore to Metal Removal Plant Conveyor #2 and Secondary Diverter

BG1. System 49A – Pipeline Gasoline Dispensing Station

S	2.049	Pipeline Gasoline Storage Tank, 12,000 gallon capacity

BG2. System 49B – F-Canyon Gasoline Dispensing Station

S	2.050	F-Canyon (Underground) Gasoline Storage Tank, 3,500 gallon capacity

BG3. System 49C – Cortez Hills Gasoline Dispensing Station

S	2.056	Cortez Hills Gasoline Storage Tank, 12,000 gallon capacity

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Emission Unit List – continued

BH1. System 50A – Cortez Hills CHOP Aggregate Plant – Primary Jaw Crusher

PF	1.151	Primary Jaw Crusher and associated transfers in (Loader) and out (Jaw Discharge Conveyor)

System 50B – Cortez Hills CHOP Aggregate Plant – Double Deck Screen

PF	1.152	Double Deck Screen and associated transfers in (Jaw Discharge Conveyor) and out (Cone Loading Conveyor, Backfill Conveyor, Screen Discharge Conveyor)

BH3. System 50C – Cortez Hills CHOP Aggregate Plant – Secondary Cone Crusher

PF	1.153	Secondary Cone Crusher and associated transfers in (Cone Loading Conveyor) and out (Cone Discharge Conveyor)

BH4. System 50D – Cortez Hills CHOP Aggregate Plant – Aggregate Transfers

PF	1.154	Jaw Discharge Conveyor transfer to Aggregate Stockpile
PF	1.155	Backfill Conveyor transfer to Backfill Radial Stacker
PF	1.156	Backfill Radial Stacker transfer to Backfill Stockpile
PF	1.157	Screen Discharge Conveyor transfer to Product Conveyor
PF	1.158	Cone Discharge Conveyor transfer to Product Conveyor
PF	1.159	Product Conveyor transfer to Product Radial Stacker
PF	1.160	Product Radial Stacker transfer to Product Stockpile

BI1. System 51A – Tails Dam Aggregate Plant – Primary Crushing

PF	1.161	Jaw Crusher J-001 and associated transfers in (Loader) and out (Jaw 1 Discharge Conveyor)
PF	1.165	Jaw Crusher J-002 and associated transfers in (Loader) and out (Jaw 2 Discharge Conveyor)

BI2. System 51B – Tails Dam Aggregate Plant – Primary Screening

PF	1.162	3-Deck Screen S-001A and associated transfers in (Jaw 1 Discharge Conveyor) and out (Cone 1 Loading Conveyor, Conveyor C-005, Conveyor C-027)
PF	1.166	3-Deck Screen S-002A and associated transfers in (Jaw 2 Discharge Conveyor) and out (Cone 2 Loading Conveyor, Conveyor C-005, Conveyor C-028)

BI3. System 51C – Tails Dam Aggregate Plant – Secondary Crushing

PF	1.163	Cone Crusher CC-001 and associated transfers in (Cone 1 Loading Conveyor) and out (Cone 1 Discharge Conveyor)
PF	1.167	Cone Crusher CC-002 and associated transfers in (Cone 2 Loading Conveyor) and out (Cone 2 Discharge Conveyor)

BI4. System 51D – Tails Dam Aggregate Plant – Secondary Screening

PF	1.164	2-Deck Screen S-001B and associated transfers in (Cone 1 Discharge Conveyor) and out (Conveyor C-005, Conveyor C-016, Conveyor C-031)
PF	1.168	2-Deck Screen S-002B and associated transfers in (Cone 2 Discharge Conveyor) and out (Conveyor C-005, Conveyor C-016, Conveyor C-030)

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Emission Unit List – continued

BI5. System 51E – Tails Dam Aggregate Plant – Conveyor Transfers

PF	1.169	Conveyor C-005 transfer to Conveyor C-006
PF	1.170	Conveyor C-006 transfer to Conveyor C-007
PF	1.171	Conveyor C-007 transfer to Conveyor C-008
PF	1.172	Conveyor C-008 transfer to Conveyor C-009
PF	1.173	Conveyor C-009 transfer to Conveyor C-010
PF	1.174	Conveyor C-010 transfer to Conveyor C-011
PF	1.175	Conveyor C-011 transfer to Conveyor C-012
PF	1.176	Conveyor C-012 transfer to Conveyor C-013
PF	1.177	Conveyor C-013 transfer to Conveyor C-014
PF	1.178	Conveyor C-014 transfer to Conveyor C-015
PF	1.179	Conveyor C-015 transfer to Super Stacker SS-001
PF	1.180	Super Stacker SS-001 transfer to Aggregate Stockpile 1

BI6. System 51F – Tails Dam Aggregate Plant – Conveyor Transfers

PF	1.183	Conveyor C-018 transfer to Conveyor C-019
PF	1.184	Conveyor C-019 transfer to Conveyor C-020
PF	1.185	Conveyor C-020 transfer to Conveyor C-021
PF	1.186	Conveyor C-021 transfer to Conveyor C-022
PF	1.187	Conveyor C-022 transfer to Conveyor C-023
PF	1.188	Conveyor C-023 transfer to Conveyor C-024
PF	1.189	Conveyor C-024 transfer to Conveyor C-025
PF	1.190	Conveyor C-025 transfer to Conveyor C-026
PF	1.191	Conveyor C-026 transfer to Super Stacker SS-002
PF	1.192	Super Stacker SS-002 transfer to Aggregate Stockpile 2

BI7. System 51G – Tails Dam Aggregate Plant – Conveyor Transfers

PF	1.193	Conveyor C-027 transfer to Conveyor C-029
PF	1.194	Conveyor C-028 transfer to Conveyor C-029
PF	1.196	Conveyor C-030 transfer to Conveyor C-032
PF	1.197	Conveyor C-031 transfer to Conveyor C-032

BI8. System 51H – Tails Dam Aggregate Plant – Conveyor Transfers

PF	1.181	Conveyor C-016 transfer to Conveyor C-017
PF	1.182	Conveyor C-017 transfer to Conveyor C-018
PF	1.195	Conveyor C-029 transfer to Conveyor C-018
PF	1.198	Conveyor C-032 transfer to Conveyor C-033
PF	1.199	Conveyor C-033 transfer to Radial Stacker RS-001
PF	1.200	Radial Stacker RS-001 transfer to Aggregate Stockpile 3

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Emission Unit List – continued

BJ. System 52 – A30, 200 Tons Lime Silo

S	2.051	A30 Lime Silo (pneumatic) Loading
PF	1.201	A30 Lime Silo Unloading to Lime Conveyor
PF	1.202	Lime Conveyor transfer to Truck

BK. System 53 – A30, 200 Tons Lime Silo

S	2.052	A30 Lime Silo (pneumatic) Loading
PF	1.203	A30 Lime Silo Unloading to Lime Conveyor
PF	1.204	Lime Conveyor transfer to Truck

BL. System 54 – A30, 200 Tons Lime Silo

S	2.053	A30 Lime Silo (pneumatic) Loading
PF	1.205	A30 Lime Silo Unloading to Lime Conveyor
PF	1.206	Lime Conveyor transfer to Truck

BM. System 55 – Cement Silo

S	2.054	Cement Silo (pneumatic) Loading
PF	1.207	Cement Silo Unloading

BN. System 56 – A30 Emergency Diesel Generator

S	2.055	A30 Emergency Diesel Generator (2,937 HP, mdl# CAT3516C, mfd 2012)

BO. System 57 – A34 Emergency Diesel Generator

S	2.056	A34 Emergency Diesel Generator (2,937 HP, mdl# CAT3516C, mfd 2012)

BP. System 58 – Underground Emergency Diesel Generator

S	2.057	Underground Emergency Diesel Generator #4 (2,937 HP, mdl# CAT3516C, mfd 2012)

BQ. System 59 – Scale Building Emergency Diesel Generator

S	2.058	Scale Building Emergency Diesel Generator #4 (168 HP, mdl# Iveco GHP/NEF N67, mfd 2012)

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions

A. Nevada Administrative Code (NAC) 445B.315.3.c**,** *Part 70 Program*
Severability
Each of the conditions and requirements of this Operating Permit is severable and, if any are held invalid, the remaining conditions and requirements continue in effect.

B. Nevada Revised Statute (NRS) 445B.470.1 *(State Only Requirement)*
Prohibited Acts
The Permittee shall not knowingly:
1. Violate any applicable provision, the terms or conditions of any permit or any provision for the filing of information;
2. Fail to pay any fee;
3. Falsify any material statement, representation or certification in any notice or report; or
4. Render inaccurate any monitoring device or method, required pursuant to the provisions of NRS 445B.100 to 445B.450, inclusive, or NRS 445B.470 to 445B.640, inclusive, or any regulation adopted pursuant to those provisions.

C. NAC 445B.22013 *(State Only Requirement)*
Prohibited Discharge
The Permittee shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the Director.

D. NAC 445B.225 *(Federally Enforceable SIP Requirement)*
Prohibited Conduct: Concealment of Emissions
No person may install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.

E. NAC 445B.315.3.d *Part 70 Program*
Compliance/Noncompliance
The Permittee shall comply with all conditions of this Operating Permit. Any noncompliance constitutes a violation and is grounds for:
1. An action for noncompliance;
2. Modifying, revoking, reopening and revising, or terminating the Operating Permit; or
3. Denial of an application for a renewal of the Operating Permit.

F. NAC 445B.273.1 *(State Only Requirement)*
Schedules for Compliance
The Permittee shall comply with NAC 445B.001 through 445B.3689, inclusive. Existing stationary sources are in compliance with those sections and may continue to operate under the provisions of their approved compliance schedules, which may be amended from time to time.

G. NAC 445B.326.1 *Part 70 Program*
Assertion of Emergency as Affirmative Defense to Action for Noncompliance
The Permittee may assert an affirmative defense to an action brought for noncompliance with a technology-based emission limitation contained in the Operating Permit if the holder of the Operating Permit demonstrates through signed, contemporaneous operating logs or other relevant evidence that:
1. An emergency occurred as defined in NAC 445B.056, and the holder of the Operating Permit can identify the cause of the emergency;
2. The facility was being properly operated at the time of the emergency;
3. During the emergency, the holder of the Operating Permit took all reasonable steps to minimize excess emissions; and
4. The holder of the Operating Permit submitted notice of the emergency to the Director within 2 working days after the emergency. The notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken to restore the normal operation of the facility.

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

H. NAC 445B.315.3.e *Part 70 Program*
The need to halt or reduce activity to maintain compliance with the conditions of this Operating Permit is not a defense to noncompliance with any conditions of this Operating Permit.

I. NAC 445B.315.3.f *Part 70 Program*
The Director may revise, revoke and reissue, reopen and revise, or terminate the operating permit for cause.

J. NAC 445B.325 *Part 70 Program*
Termination, reopening and revision, modification, and revocation and reissuance
1. A Class I operating permit must be reopened and revised to incorporate any additional applicable requirement adopted pursuant to the Act if, on the effective date of the applicable requirement, the operating permit has a remaining term of 3 or more years. The reopening must be completed no later than 18 months after the effective date of the applicable requirement.
2. An operating permit may be terminated, reopened and revised, modified, or revoked and reissued if:
   a. The Director or the Administrator determines that the operating permit contains a material mistake or is based on inaccurate statements;
   b. The Director or the Administrator determines that the operating permit, as written, does not ensure compliance with all applicable requirements; or
   c. The Director determines that there has been a violation of any of the provisions of NAC 445B.001 to 445B.3497, inclusive, any applicable requirement, or any condition contained in the operating permit.

K. NAC 445B.3265 *(State Only Requirement)*
Revocation and reissuance
1. NAC 445B. 3265.1. The Permittee's operating permit may be revoked if the control equipment is not operating.
2. NAC 445B.3265.2. The Permittee's operating permit may be revoked by the Director upon determination that there has been a violation of NAC 445B.001 to 445B.3497, inclusive, or the provisions of 40 CFR Part 52.21, or 40 CFR Part 60 or 61, Prevention of Significant Deterioration, New Source Performance Standards, and National Emission Standards for Hazardous Air Pollutants adopted by reference in NAC 445B.221.
3. NAC 445B.3265.3. -The revocation is effective 10 days after the service of a written notice, unless a hearing is requested.

L. SIP 445.715 *(Federally Enforceable SIP Requirement)*
Operating Permits: Revocation
1. The Permittee's operating permit may be revoked if the control equipment is not operating.
2. The Permittee's operating permit can be revoked by the Director upon determination that there has been a violation of SIP 445.430 to 445.846, inclusive, or 40 CFR Parts 60 or 61, New Source Performance Standards and National Emissions Standards for Hazardous Air Pollutants.
3. The revocation is effective 10 days after the service of a written notice, and the revoked operating permit shall be surrendered immediately unless a hearing is requested.

M. NAC 445B.315.3.g *Part 70 Program*
This Operating Permit does not convey any property rights or any exclusive privilege.

N. NAC 445B.315.3.h *Part 70 Program*
The Permittee shall provide the Director, within a reasonable time, with any information that the Director requests in writing to determine whether cause exists for modifying, revoking and reissuing, reopening and revising or terminating this Operating Permit or to determine compliance with the conditions of this Operating Permit.

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Section I. General Conditions (continued)

O. NAC 445B.315.3.i *Part 70 Program*
The Permittee shall pay fees to the Bureau of Air Pollution Control in accordance with the provisions set forth in NAC 445B.327 and 445B.331.

P. NAC 445B.315.3.j *Part 70 Program*
Right to Entry
The Permittee shall allow the Bureau of Air Pollution Control staff, upon the presentation of credentials, to:

1. Enter upon the premises of the Permittee where:
   a. The stationary source is located;
   b. Activity related to emissions is conducted; or
   c. Records are kept pursuant to the conditions of this Operating Permit.
2. Have access to and copy, during normal business hours, any records that are kept pursuant to the conditions of this Operating Permit;
3. Inspect, at reasonable times, any facilities, practices, operations, or equipment, including any equipment for monitoring or controlling air pollution, that are regulated or required pursuant to this Operating Permit; and
4. Sample or monitor, at reasonable times, substances or parameters to determine compliance with the conditions of this Operating Permit or applicable requirements.

Q. NAC 445B.315.3.k *Part 70 Program*
A responsible official of the Permittee shall certify that, based on information and belief formed after reasonable inquiry, the statements made in any document required to be submitted by any condition of this Operating Permit are true, accurate and complete.

R. 40 CFR 52.21(r)(4) *(Federally Enforceable PSD Program)*
At such time that the Permittee becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of 40 CFR Part 52.21 paragraphs (j) through (s) of this section shall apply to the source or modification as though construction had not yet commenced on the source or modification.

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

S. NAC 445B.252 Testing and Sampling (*State Only Requirement*)

1. To determine compliance with NAC 445B.001 to 445B.3689, inclusive, before the approval or the continuance of an operating permit or similar class of permits, the Director may either conduct or order the owner of any stationary source to conduct or have conducted such testing and sampling as the Director determines necessary. Testing and sampling or either of them must be conducted and the results submitted to the Director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial start-up of the facility and at such other times as may be required by the Director.
2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the Director:
   a. Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
   b. Approves the use of an equivalent method;
   c. Approves the use of an alternative method, the results of which the Director has determined to be adequate for indicating whether a specific stationary source is in compliance; or
   d. Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard.
3. Tests of performance must be conducted under such conditions as the Director specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.
4. The owner or operator of an affected facility shall give notice to the Director 30 days before the test of performance to allow the Director to have an observer present. A written testing procedure for the test of performance must be submitted to the Director at least 30 days before the test of performance to allow the Director to review the proposed testing procedures.
5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the Director's approval.
6. All testing and sampling will be performed in accordance with recognized methods and as specified by the Director.
7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power and other pertinent allied facilities as may be required and specified in writing by the Director must be provided and paid for by the owner of the stationary source.
8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the Director no later than 60 days after the testing or sampling, or both.
9. Notwithstanding the provisions of subsection 2, the Director shall not approve an alternative method or equivalent method to determine compliance with a standard or emission limitation contained in Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations for:
   a. An emission unit that is subject to a testing requirement pursuant to Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations; or
   b. An affected source.

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

T. SIP 445B.252 Testing and sampling (*Federally Enforceable SIP Requirement*)

1. To determine compliance with NAC 445B.001 to 445B.3497, inclusive, before the approval or the continuance of an operating permit or similar class of permits, the Director may either conduct or order the owner of any stationary source to conduct or have conducted such testing and sampling as the Director determines necessary. Testing and sampling or either of them must be conducted and the results submitted to the Director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial start-up of the facility and at such other times as may be required by the Director.
2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the Director:
   a. Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
   or
   d. Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard.
3. Tests of performance must be conducted under such conditions as the Director specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.
4. The owner or operator of an affected facility shall give notice to the Director 30 days before the test of performance to allow the Director to have an observer present. A written testing procedure for the test of performance must be submitted to the Director at least 30 days before the test of performance to allow the Director to review the proposed testing procedures.
5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the Director's approval.
7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power and other pertinent allied facilities as may be required and specified in writing by the Director must be provided and paid for by the owner of the stationary source.
8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the Director no later than 60 days after the testing or sampling, or both.
9. Notwithstanding the provisions of subsection 2, the Director shall not approve an alternative method or equivalent method to determine compliance with a standard or emission limitation contained in Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations for:
   a. An emission unit that is subject to a testing requirement pursuant to Part 60, 61 or 63 of Title 40 of the Code of Federal Regulations; or
   b. An affected source.

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Section I. General Conditions (continued)

U. NAC 445B.22017 *(Federally Enforceable SIP Requirement)*
Visible Emissions: Maximum Opacity; Determination and Monitoring of Opacity.

1. Except as otherwise provided in this section and NAC 445B.2202, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:
   a. If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A of 40 C.F.R. Part 60.
   b. If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §§ 60.13(h).
2. The provisions of this section and NAC 445B.2202 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.
3. If the provisions of 40 CFR Part 60, Subpart D or Da apply to an emission unit, the emission unit shall be allowed one 6-minute period per hour of not more than 27 percent opacity as set forth in 40 CFR § 60.42(a)(2) AND 40 CFR § 60.42a(b).
4. The continuous monitoring system for monitoring opacity at a facility shall be operated and maintained by the owner or operator specified in the permit for the facility in accordance with NAC 445B.256 to 445B.267, inclusive.

V. NAC 445B.22037 *(Federally Enforceable SIP Requirement)*
Emissions of Particulate Matter: Fugitive Dust

1. The Permittee may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in subsection 4, the Permittee may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, "best practical methods" includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in subsection 4, the Permittee may not disturb or cover 5 acres or more of land or its topsoil until The Permittee has obtained an Operating Permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of subsections 2 and 3 do not apply to:
   a. Agricultural activities occurring on agricultural land; or
   b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.

W. NAC 445B.22067
Open Burning
The open burning of any combustible refuse, waste, garbage, oil, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in NAC 445B.22067.2.

X. NAC 445B.22087 *(State Only Requirement)*
Odors
The Permittee may not discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents comfortable enjoyment of life or property.

Y. NAC 445B.319, 445B.342, 445B.3425 and 445B.344 *Part 70 Program*
Any changes to this Operating Permit will comply with all provisions established under NAC 445B.319, 445B.342, 445B.3425 and 445B.344.

Z. NAC 445B.3443 *Part 70 Program*
Renewal of this Operating Permit will be in accordance with NAC 445B.3443.

**************End of General Conditions**************

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Section II. General Construction Conditions

The following provisions apply to **PF1.093, PF113 – PF1.126, PF1.147 – PF1.160, PF1.164 – PF1.168, PF1.176 – PF1.179, PF1.181 - PF1.207, S2.042, S2.043, S2.046, and S2.051 – S2.058:**

A. NAC 445B.250 Notification of planned construction or reconstruction. *(Federally Enforceable SIP Requirement)*
Any owner or operator subject to the provisions of NAC 445B.001 to 4445B.3689, inclusive, shall furnish the Director written notification of:

1. The date that construction or reconstruction of **PF1.093, PF113 – PF1.126, PF1.147 – PF1.160, PF1.164 – PF1.168, PF1.176 – PF1.179, PF1.181 - PF1.207, S2.042, S2.043, S2.046, and S2.051 – S2.058** is commenced, postmarked no later than 30 days after such date. This requirement does not apply in the case of mass-produced facilities which are purchased in completed form.
2. The anticipated date of initial start-up of **PF1.093, PF113 – PF1.126, PF1.147 – PF1.160, PF1.164 – PF1.168, PF1.176 – PF1.179, PF1.181 - PF1.207, S2.042, S2.043, S2.046, and S2.051 – S2.058** postmarked not more than 60 days and not less than 30 days before such date.
3. The actual date of initial start-up of **PF1.093, PF113 – PF1.126, PF1.147 – PF1.160, PF1.164 – PF1.168, PF1.176 – PF1.179, PF1.181 - PF1.207, S2.042, S2.043, S2.046, and S2.051 – S2.058**, postmarked within 15 days after such date.
4. The date upon which demonstration of the continuous monitoring system performance commences in accordance with NAC 445B.256 to 445B.267, inclusive. Notification must be postmarked not less than 30 days before such date.1.

B. NAC 445B.3366 Part 70 Program
Expiration
This Operating Permit expires if construction is not commenced within 18 months after the date of issuance thereof or construction of the facility is delayed for 18 months after initiated.

**************End of General Construction Conditions**************

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions

C. Emission Unit PF1.013 Location North 4,456.73 km, East 523.93 km, UTM (Zone 11, NAD 83)

System 3 – Pipeline Metallic Ore Transfers		
PF	1.013	Emergency Apron Feeder transfer of Metallic Ore to 42"x650' Conveyor #3

AP. Emission Unit S2.034A Location North 4,447.32 km, East 532.87 km, UTM (Zone 11, NAD 83)

System 32A – Cortez Hills Metallic Ore Overland Conveying System, Alt Operating Scenario to System 32		
S	2.034A	Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1

BD. Emission Units PF1.130 – PF1.133 Location North 4,448.90 km, East 532.23 km, UTM (Zone 11, NAD 83)

System 46 – Cortez Hills Metal Removal Plant - Metallic Ore Transfers		
PF	1.130	Loading of Metallic Ore to Feed Hopper
PF	1.131	Feed Hopper discharge of Metallic Ore to Conveyor #1
PF	1.132	Conveyor #1 transfer of Metallic Ore to Conveyor #2
PF	1.134	Conveyor #2 transfer of Metallic Ore to Conveyor #3
PF	1.133	Conveyor #3 transfer of Metallic Ore to Metallic Ore Stockpile

BF1. Emission Units PF1.147 – PF1.148 Location North 4,448.90 km, East 532.23 km, UTM (Zone 11, NAD 83)

System 48A – Cortez Hills Metal Removal Plant - Metallic Ore Transfers		
PF	1.147	Metal Removal Plant Conveyor #2 transfer of Ore to Sample Conveyor S1
PF	1.148	Primary Crusher and associated transfers in (Sample Conveyor S1) and out (Sample Conveyor S2)

BF2. Emission Units PF1.149 – PF1.150 Location North 4,448.90 km, East 532.23 km, UTM (Zone 11, NAD 83)

System 48B – Cortez Hills Metal Removal Plant - Metallic Ore Transfers		
PF	1.149	Secondary Crusher & associated transfers in (Sample Conveyor S2) and out (Sample Conveyor S3)
PF	1.150	Sample Conveyor S3 transfer of Ore to Metal Removal Plant Conveyor #2 and Secondary Diverter

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipment
   Transfer point for emission unit **PF1.013** is located underneath the **Metallic Ore Stockpile (System 2)**. Emissions from **PF1.013** are controlled by the ore material containing at least **4% moisture**. The metallic ore material must be sampled twice per shift during operations, sampled at the **Apron Feeder transfer point to Conveyor #3**, and analyzed for moisture content.

   Emissions from **S2.034A** are controlled by a **dust collector** with 100% capture and a maximum volume flow rate of 1,511 dry standard cubic feet per minute (dscfm).

   Emissions from **PF1.130 - PF1.134** are controlled by best operating practices.

   Emissions from **PF1.147 – PF1.150** each, are controlled by an enclosure.

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Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.013, PF1.130 – PF1.134, PF1.147 – PF1.150, and S2.034A - continued

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252; 40 CFR Part 60.386(b)(2) *Part 70 Program*
   Performance/Compliance Testing
   a. Within 60 days after achieving the maximum production rate at which **PF1.013, PF1.130 – PF1.134, PF1.147 – PF1.150, and S2.034A** will be operated, but no later than 180 days after initial startup of **PF1.013, PF1.130 – PF1.134, PF1.147 – PF1.150, and S2.034A**, Permittee shall demonstrate initial compliance with the opacity standards established in Sections VI.C.2, VI.AO.2, VI.AP.2, VI.BD.2, VI.BF1.2, and VI.BF2.2 of this operating permit in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be 3 hours (30 6-minute averages). The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed. (40 CFR Part 60.11(b), 60.11(e)(1))
   b. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in 2.a of this section. The notification shall be postmarked not less than 30 days prior to such date. (40 CFR Part 60.7(a)(6))
   c. Within 60 days after completing the opacity observations contained in 2.a of this section, Permittee shall furnish the director a written report of the results of the opacity observations required in 2.a of this section. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3791, inclusive. (NAC 445B.252.8)

3. NAC 445B.3405 (NAC 445B.316); 40 CFR Part 60.7; NAC 445B.250 *Part 70 Program*
   Notification and Recordkeeping
   Permittee shall provide the director the following:
   a. A notification of the date construction of **PF1.013, PF1.130 – PF1.134, PF1.147 – PF1.150, and S2.034A** is commenced postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form. (40 CFR Part 60.7(a)(1); NAC 445B.250.1)
   b. A notification of the anticipated date of initial startup of **PF1.013, PF1.130 – PF1.134, PF1.147 – PF1.150, and S2.034A** postmarked not more than 60 days nor less than 30 days prior to such date. (40 CFR Part 60.7(a)(2); NAC 445B.250.2)
   c. A notification of the actual date of initial startup of **PF1.013, PF1.130 – PF1.134, PF1.147 – PF1.150, and S2.034A** postmarked within 15 days after such date. (40 CFR Part 60.7(a)(3); NAC 445B.250.3)

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Section IIA. Specific Construction Conditions (continued)

AP. Emission Unit PF1.093 Location North 4,449.05 km, East 531.23 km, UTM (Zone 11, NAD 83)

System 32A – Cortez Hills Metallic Ore Overland Conveying System, Alt Operating Scenario to System 32		
PF	1.093	Overland Conveyor #1 transfer of Metallic Ore to Metallic Ore Bypass Stockpile

AY. Emission Units PF1.113 – PF1.124 Location North 4,448.63 km, East 532.17 km, UTM (Zone 11, NAD 83)

System 41A – Cortez Hills Main Batch Plant – Aggregate Transfers		
PF	1.113	Loading of Aggregate to Coarse Aggregate Bin
PF	1.114	Coarse Aggregate Bin discharge to Coarse Aggregate Conveyor
PF	1.115	Coarse Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.116	Loading of Aggregate to Fine Aggregate Bin
PF	1.117	Fine Aggregate Bin discharge to Fine Aggregate Conveyor
PF	1.118	Fine Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.119	Loading of Aggregate to Shotcrete Aggregate Bin
PF	1.120	Shotcrete Aggregate Bin discharge to Shotcrete Aggregate Conveyor
PF	1.121	Shotcrete Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.122	Aggregate Weigh Hopper Feed Conveyor transfer to Aggregate Weigh Hopper
PF	1.123	Aggregate Weigh Hopper discharge to Mixer Feed Conveyor
PF	1.124	Mixer Feed Conveyor transfer of Aggregate to Mixer

AZ. Emission Units S2.042 – S2.043, PF1.125 – PF1.126
Location North 4,448.69 km, East 532.14 km, UTM (Zone 11, NAD 83)

System 42 – Cortez Hills Main Batch Plant – Silo Transfers		
S	2.042	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
PF	1.125	Silo #1 unloading to Cement Batcher #1
S	2.043	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2
PF	1.126	Silo #2 unloading to Cement Batcher #2

BH4. Emission Unit PF1.154 Location North 4,447.28 km, East 531.69 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.156 Location North 4,447.25 km, East 531.63 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.160 Location North 4,447.28 km, East 531.68 km, UTM (Zone 11, NAD 83)

BH4. System 50D – Cortez Hills CHOP Aggregate Plant – Aggregate Transfers		
PF	1.154	Jaw Discharge Conveyor transfer to Aggregate Stockpile
PF	1.156	Backfill Radial Stacker transfer to Backfill Stockpile
PF	1.160	Product Radial Stacker transfer to Product Stockpile

BI6. Emission Unit PF1.192 Location North 4,457.53 km, East 526.61 km, UTM (Zone 11, NAD 83)

System 51F – Tails Dam Aggregate Plant – Conveyor Transfers		
PF	1.192	Super Stacker SS-002 transfer to Aggregate Stockpile 2

BI8. Emission Unit PF1.200 Location North 4,455.99 km, East 526.67 km, UTM (Zone 11, NAD 83)

System 51H – Tails Dam Aggregate Plant – Conveyor Transfers		
PF	1.200	Radial Stacker RS-001 transfer to Aggregate Stockpile 3

BJ. Emission Units S2.051 & PF1.201 – PF1.202 Location North 4,454.28 km, East 523.57 km, UTM (Zone 11, NAD 83)

System 52 – A30, 200 Ton Lime Silo		
S	2.051	A30 Lime Silo (pneumatic) Loading
PF	1.201	A30 Lime Silo Unloading to Lime Conveyor
PF	1.202	A30 Lime Silo Hopper transfer to Truck

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Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.093, PF1.113–PF1.126, PF1.154, PF1.156, PF1.160, PF1.192, PF1.200 – PF1.207, S2.042, S2.043, and S2.051 – S2.058 - continued

BK. Emission Units S2.052 & PF1.203 – PF1.204 Location North 4,453.85 km, East 524.30 km, UTM (Zone 11, NAD 83)

System 53 – A30, 200 Ton Lime Silo		
S	2.052	A30 Lime Silo (pneumatic) Loading
PF	1.203	A30 Lime Silo Unloading to Lime Conveyor
PF	1.204	Lime Conveyor transfer to Truck

BL. Emission Units S2.053 & PF1.205 – PF1.206 Location North 4,453.87 km, East 523.90 km, UTM (Zone 11, NAD 83)

System 54 – A30, 200 Ton Lime Silo		
S	2.053	A30 Lime Silo (pneumatic) Loading
PF	1.205	A30 Lime Silo Unloading to Lime Conveyor
PF	1.206	Lime Conveyor transfer to Truck

BM. Emission Units S2.054 & PF1.207 Location North 4,444.53 km, East 533.58 km, UTM (Zone 11, NAD 83)

System 55 – Cement Silo		
S	2.054	Cement Silo (pneumatic) Loading
PF	1.207	Cement Silo Unloading

BN. Emission Unit S2.055 Location North 4,452.83 km, East 524.47 km, UTM (Zone 11, NAD 83)

System 56 – A30 Emergency Diesel Generator		
S	2.055	A30 Emergency Diesel Generator (2,937 HP, mdl# CAT3516C, mfd 2012)

BO. Emission Unit S2.056 Location North 4,442.86 km, East 532.32 km, UTM (Zone 11, NAD 83)

System 57 – A34 Emergency Diesel Generator		
S	2.056	A34 Emergency Diesel Generator (2,937 HP, mdl# CAT3516C, mfd 2012)

BP. Emission Unit S2.057 Location North 4,449.10 km, East 531.85 km, UTM (Zone 11, NAD 83)

System 58 – Underground Emergency Diesel Generator		
S	2.057	Underground Emergency Diesel Generator #4 (2,937 HP, mdl# CAT3516C, mfd 2012)

BQ. Emission Unit S2.058 Location North 4,449.89 km, East 532.22 km, UTM (Zone 11, NAD 83)

System 59 – Scale Building Emergency Diesel Generator		
S	2.058	Scale Building Emergency Diesel Generator (168 HP, mdl# Iveco GHP/NEF N67, mfd 2012)

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipment
   Emissions from **PF1.093 and PF1.207** are controlled by best operating practices.

   Emissions from **PF1.113 - PF1.126, PF1.201 – PF1.206** each, are controlled by an **enclosure**.

   Emissions from **S2.042, S2.043, and S2.051 - S2.054** each, shall be ducted to a control system consisting of a **bin vent** with 100% capture.

   Emissions from **PF1.154, PF1.156, PF1.160, PF1.192, and PF1.200** shall be controlled by water sprays located at **PF1.154, PF1.156, PF1.160, PF1.192, and PF1.200** each.

   Emissions from **S2.055 - S2.058** shall be un-controlled.

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Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.093, PF1.113–PF1.126, PF1.154, PF1.156, PF1.160, PF1.192, PF1.200 – PF1.207, S2.042, S2.043, and S2.051 – S2.058 - continued

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 *Part 70 Program*
   Performance/Compliance Testing
   a. Within 60 days after achieving the maximum production rate at which **PF1.093, PF1.113–PF1.126, PF1.154, PF1.156, PF1.160, PF1.192, PF1.200 – PF1.207, S2.042, S2.043, and S2.051 – S2.058** will be operated, but no later than 180 days after initial startup of **PF1.093, PF1.113–PF1.126, PF1.154, PF1.156, PF1.160, PF1.192, PF1.200 – PF1.207, S2.042, S2.043, and S2.051 – S2.058**, Permittee shall demonstrate initial compliance with the opacity standards established in Sections VI.AP.2, VI.AY.2, VI.AZ.2, VI.BH4.2, VI.BI5.2, VI.BI6.2, VI.BI8.2, VI.BJ.2, VI.BK.2, VI.BL.2, VI.BM.2, VI.BN.2, VI.BO.2, VI.BP.2, and VI.BQ.2 of this operating permit in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals). The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed.
   b. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in 2.a of this section. The notification shall be postmarked not less than 30 days prior to such date.
   c. Within 60 days after completing the opacity observations contained in 2.a of this section, Permittee shall furnish the director a written report of the results of the opacity observations required in 2.a of this section. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3791, inclusive. (NAC 445B.252.8)

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Section IIA. Specific Construction Conditions (continued)

BH1. Emission Unit PF1.151 Location North 4,447.28 km, East 531.60 km, UTM (Zone 11, NAD 83)

System 50A – Cortez Hills CHOP Aggregate Plant – Primary Jaw Crusher		
PF	1.151	Primary Jaw Crusher and associated transfers in (Loader) and out (Jaw Discharge Conveyor)

BH2. Emission Unit PF1.152 Location North 4,447.28 km, East 531.63 km, UTM (Zone 11, NAD 83)

System 50B – Cortez Hills CHOP Aggregate Plant – Double Deck Screen		
PF	1.152	Double Deck Screen and associated transfers in (Jaw Discharge Conveyor) and out (Cone Loading Conveyor, Backfill Conveyor, Screen Discharge Conveyor)

BH3. Emission Unit PF1.153 Location North 4,447.27 km, East 531.66 km, UTM (Zone 11, NAD 83)

BH3. System 50C – Cortez Hills CHOP Aggregate Plant – Secondary Cone Crusher		
PF	1.153	Secondary Cone Crusher and associated transfers in (Cone Loading Conveyor) and out (Cone Discharge Conveyor)

BH4. Emission Unit PF1.155 Location North 4,447.25 km, East 531.63 km, UTM (Zone 11, NAD 83)
Emission Units PF1.157 – PF1.159 Location North 4,447.28 km, East 531.68 km, UTM (Zone 11, NAD 83)

BH4. System 50D – Cortez Hills CHOP Aggregate Plant – Aggregate Transfers		
PF	1.155	Backfill Conveyor transfer to Backfill Radial Stacker
PF	1.157	Screen Discharge Conveyor transfer to Product Conveyor
PF	1.158	Cone Discharge Conveyor transfer to Product Conveyor
PF	1.159	Product Conveyor transfer to Product Radial Stacker

BI1. Emission Unit PF1.165 Location North 4,455.91 km, East 526.70 km, UTM (Zone 11, NAD 83)

System 51A – Tails Dam Aggregate Plant – Primary Crushing		
PF	1.165	Jaw Crusher J-002 and associated transfers in (Loader) and out (Jaw 2 Discharge Conveyor)

BI2. Emission Unit PF1.166 Location North 4,455.92 km, East 526.69 km, UTM (Zone 11, NAD 83)

System 51B – Tails Dam Aggregate Plant – Primary Screening		
PF	1.166	3-Deck Screen S-002A and associated transfers in (Jaw 2 Discharge Conveyor) and out (Cone 2 Loading Conveyor, Conveyor C-005, Conveyor C-028)

BI3. Emission Unit PF1.167 Location North 4,455.92 km, East 526.67 km, UTM (Zone 11, NAD 83)

System 51C – Tails Dam Aggregate Plant – Secondary Crushing		
PF	1.167	Cone Crusher CC-002 and associated transfers in (Cone 2 Loading Conveyor) and out (Cone 2 Discharge Conveyor)

BI4. Emission Unit PF1.164 Location North 4,455.93 km, East 526.70 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.168 Location North 4,455.92 km, East 526.68 km, UTM (Zone 11, NAD 83)

System 51D – Tails Dam Aggregate Plant – Secondary Screening		
PF	1.164	2-Deck Screen S-001B and associated transfers in (Cone 1 Discharge Conveyor) and out (Conveyor C-005, Conveyor C-016, Conveyor C-031)
PF	1.168	2-Deck Screen S-002B and associated transfers in (Cone 2 Discharge Conveyor) and out (Conveyor C-005, Conveyor C-016, Conveyor C-030)

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Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF1.178, PF1.181-PF1.191, and PF1.193-PF1.199 - continued

BI5. Emission Unit PF1.176 Location North 4,457.06 km, East 526.56 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.177 Location North 4,457.07 km, East 526.57 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.178 Location North 4,457.09 km, East 526.57 km, UTM (Zone 11, NAD 83)

System 51E – Tails Dam Aggregate Plant – Conveyor Transfers		
PF	1.176	Conveyor C-012 transfer to Conveyor C-013
PF	1.177	Conveyor C-013 transfer to Conveyor C-014
PF	1.178	Conveyor C-014 transfer to Conveyor C-015

BI6. Emission Unit PF1.183 Location North 4,455.95 km, East 526.66 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.184 Location North 4,456.21 km, East 526.54 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.185 Location North 4,456.47 km, East 526.42 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.186 Location North 4,456.75 km, East 526.47 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.187 Location North 4,457.04 km, East 526.52 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.188 Location North 4,457.05 km, East 526.52 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.189 Location North 4,457.07 km, East 526.53 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.190 Location North 4,457.09 km, East 526.53 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.191 Location North 4,457.10 km, East 526.53 km, UTM (Zone 11, NAD 83)

System 51F – Tails Dam Aggregate Plant – Conveyor Transfers		
PF	1.183	Conveyor C-018 transfer to Conveyor C-019
PF	1.184	Conveyor C-019 transfer to Conveyor C-020
PF	1.185	Conveyor C-020 transfer to Conveyor C-021
PF	1.186	Conveyor C-021 transfer to Conveyor C-022
PF	1.187	Conveyor C-022 transfer to Conveyor C-023
PF	1.188	Conveyor C-023 transfer to Conveyor C-024
PF	1.189	Conveyor C-024 transfer to Conveyor C-025
PF	1.190	Conveyor C-025 transfer to Conveyor C-026
PF	1.191	Conveyor C-026 transfer to Super Stacker SS-002

BI7. Emission Unit PF1.193 and PF1.194 Location North 4,455.94 km, East 526.68 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.196 Location North 4,455.94 km, East 526.67 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.197 Location North 4,455.95 km, East 526.70 km, UTM (Zone 11, NAD 83)

System 51G – Tails Dam Aggregate Plant – Conveyor Transfers		
PF	1.193	Conveyor C-027 transfer to Conveyor C-029
PF	1.194	Conveyor C-028 transfer to Conveyor C-029
PF	1.196	Conveyor C-030 transfer to Conveyor C-032
PF	1.197	Conveyor C-031 transfer to Conveyor C-032

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Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF1.178, PF1.181-PF1.191, and PF1.193-PF1.199 - continued

BI8. Emission Unit PF1.181 Location North 4,455.92 km, East 526.68 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.182 Location North 4,455.93 km, East 526.67 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.195 Location North 4,455.93 km, East 526.67 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.198 Location North 4,455.95 km, East 526.70 km, UTM (Zone 11, NAD 83)
Emission Unit PF1.199 Location North 4,455.96 km, East 526.68 km, UTM (Zone 11, NAD 83)

System 51H – Tails Dam Aggregate Plant – Conveyor Transfers		
PF	1.181	Conveyor C-016 transfer to Conveyor C-017
PF	1.182	Conveyor C-017 transfer to Conveyor C-018
PF	1.195	Conveyor C-029 transfer to Conveyor C-018
PF	1.198	Conveyor C-032 transfer to Conveyor C-033
PF	1.199	Conveyor C-033 transfer to Radial Stacker RS-001

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipment
   Emissions from **PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF178, PF1.181-PF1.191, and PF1.193-PF1.199** shall be controlled by water sprays located at **PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF178, PF1.181-PF1.191, and PF1.193-PF1.199**, each.

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252; 40 CFR Part 60.675(c) *Part 70 Program*
   Performance/Compliance Testing
   a. Within 60 days after achieving the maximum production rate at which **PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF1.178, PF1.181-PF1.191, and PF1.193-PF1.199** will be operated, but no later than 180 days after initial startup of **PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF1.178, PF1.181-PF1.191, and PF1.193-PF1.199**, Permittee shall demonstrate initial compliance with the opacity standards established in Sections VI.AS2.2, VI.AS3.2, VI.AT1.2 VI.AT.2, VI.AU1.2, VI.AU2.2, VI.AV1.2, VI.AV2.2, VI.BH1.2, VI.BH2.2, VI.BH3.2, and VI.BH4.2 of this operating permit in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be 30 minutes (five 6-minute averages). The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed. (40 CFR Part 60.11(b), 60.11(e)(1))
   b. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in 2.a of this section. The notification shall be postmarked not less than 30 days prior to such date. (40 CFR Part 60.7(a)(6))
   c. Within 60 days after completing the opacity observations contained in 2.a of this section, Permittee shall furnish the director a written report of the results of the opacity observations required in 2.a of this section. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3791, inclusive. (NAC 445B.252.8)

3. NAC 445B.3405 (NAC 445B.316); 40 CFR Part 60.7; NAC 445B.250 *Part 70 Program*
   Notification and Recordkeeping
   Permittee shall provide the director the following:
   a. A notification of the date construction of **PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF1.178, PF1.181-PF1.191, and PF1.193-PF1.199** is commenced postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form. (40 CFR Part 60.7(a)(1); NAC 445B.250.1)
   b. A notification of the anticipated date of initial startup of **PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF1.178, PF1.181-PF1.191, and PF1.193-PF1.199** postmarked not more than 60 days nor less than 30 days prior to such date. (40 CFR Part 60.7(a)(2); NAC 445B.250.2)
   c. A notification of the actual date of initial startup of **PF1.151-PF1.153, PF1.155, PF1.157-PF1.159, PF1.164-PF1.168, PF1.176-PF1.178, PF1.181-PF1.191, and PF1.193-PF1.199** postmarked within 15 days after such date. (40 CFR Part 60.7(a)(3); NAC 445B.250.3)

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Section IIA. Specific Construction Conditions (continued)

AY2. Emission Unit S2.046 Location North 4,448.63 km, East 532.17 km, UTM (Zone 11, NAD 83)

System 41B – Cortez Hills Main Batch Plant – Aggregate Heater		
S	2.046	5.4 MMBtu/hr Propane-Fired Aggregate Heater (mfd by American Geothermal, mdl# D30)

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Control Equipment
   S2.046 shall be used to heat and prevent freezing of the material contained in the coarse aggregate bin, fine aggregate bin and shotcrete aggregate bin permitted in System 41A. Emissions from S2.046 shall be ducted with the heated air to the bins and shall be controlled in a manner which minimizes emissions.

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 *Part 70 Program*
   Performance/Compliance Testing
   a. Within 60 days after achieving the maximum production rate at which **S2.046** will be operated, but no later than 180 days after initial startup of **S2.046**, Permittee shall demonstrate initial compliance with the opacity standards on the exhaust stream established in Section AY2.2 of this operating permit in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals). The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed. Loading and unloading operations into the aggregate bin (**PF1.113-PF1.114**), fine aggregate bin (**PF1.116-PF1.117**), and shotcrete aggregate bin (**PF1.119-PF1.120**) shall be suspended while performing the Method 9 opacity observations for the exhaust stream of **S2.046**.
   b. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in 2.a of this section. The notification shall be postmarked not less than 30 days prior to such date.
   c. Within 60 days after completing the opacity observations contained in 2.a of this section, Permittee shall furnish the director a written report of the results of the opacity observations required in 2.a of this section. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3791, inclusive. (NAC 445B.252.8)

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Section IIA. Specific Construction Conditions (continued)

N. Emission Units S2.009 – S2.010 Location North 4,456.91 km, East 523.96 km, UTM (Zone 11, NAD 83)

System 11 – Pipeline Carbon Stripping Vessel Heaters		
S	2.009	12.6 MMBtu/hr Propane-Fired Carbon Stripping Vessel Heater #1 (mfd by TFS, mdl# KV 2/50)
S	2.010	12.6 MMBtu/hr Propane-Fired Carbon Stripping Vessel Heater #2 (mfd by TFS, mdl# KV 2/50)
S	2.011	Removed

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Air Pollution Control Equipment
Emissions from **S2.009 – S2.010** each shall have no add-on controls.

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 *Part 70 Program*
Performance/Compliance Testing
Within 180 days of issuance of this permit (permit issued XX XX, 2013) and the revision (increasing the heat input from 8.0 MMBtu/hr to 12.6 MMBtu) of **S2.009 – S2.010**, the Permittee shall determine compliance with the emission limit standards and the opacity standards established in Section VI.N.2 of this operating permit:
   a. Conduct and record the following performance tests on each exhaust stack for **S2.009 – S2.010** consisting of three valid runs at the maximum throughput rate subject to Section VI.N.3 of this operating permit.
      (a) A Method 7 test in accordance with 40 CFR Part 60, Appendix A for NOx.
      (b) A Method 10 test in accordance with 40 CFR Part 60, Appendix A for CO.
   b. Performance tests required under N.2.a of this section that are conducted below the maximum allowable throughput, as established in Section VI.N.3.a. of this operating permit, shall be subject to the director's review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
   c. Conduct and record a Method 9 visible emissions reading on each exhaust stack of for **S2.009 – S2.010** concurrent with one of the three required performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
   d. Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
   e. The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).

**************End of Specific Construction Conditions****************

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Section III. General Operating Conditions

A. NAC 445B.227 *Part 70 Program*
Facilities Operation
The Permittee may not:
1. Operate a stationary source of air pollution unless the control equipment for air pollution which is required by applicable requirements or conditions of this Operating Permit is installed and operating.
2. Disconnect, alter, modify or remove any of the control equipment for air pollution or modify any procedure required by an applicable requirement or condition of this Operating Permit.

B. NAC 445B.232 *(State Only Requirement)*
Excess Emissions
1. Scheduled maintenance or testing or scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.3689, inclusive, must be approved in advance by the Director and performed during a time designated by the Director as being favorable for atmospheric ventilation.
2. Each owner or operator shall notify the Director of the proposed time and expected duration at least 30 days before any scheduled maintenance or testing which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.3689, inclusive. The scheduled maintenance or testing must not be conducted unless the scheduled maintenance or testing is approved pursuant to subsection 1.
3. Each owner or operator shall notify the Director of the proposed time and expected duration at least 24 hours before any scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.3689, inclusive. The scheduled repairs must not be conducted unless the scheduled repairs are approved pursuant to subsection 1.
4. Each owner or operator shall notify the Director of any excess emissions within 24 hours after any malfunction or upset of the process equipment or equipment for controlling pollution or during start-up or shutdown of that equipment.
5. Each owner or operator shall provide the Director, within 15 days after any malfunction, upset, start-up, shutdown or human error which results in excess emissions, sufficient information to enable the Director to determine the seriousness of the excess emissions. The information must include at least the following:
   a. The identity of the stack or other point of emission, or both, where the excess emissions occurred.
   b. The estimated magnitude of the excess emissions expressed in opacity or in the units of the applicable limitation on emission and the operating data and methods used in estimating the magnitude of the excess emissions.
   c. The time and duration of the excess emissions.
   d. The identity of the equipment causing the excess emissions.
   e. If the excess emissions were the result of a malfunction, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunction.
   f. The steps taken to limit the excess emissions.
   g. Documentation that the equipment for controlling air pollution, process equipment or processes were at all times maintained and operated, to a maximum extent practicable, in a manner consistent with good practice for minimizing emissions.
6. Each owner or operator shall ensure that any notification or related information submitted to the Director pursuant to this section is provided in a format specified by the Director.

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Section III. General Operating Conditions (continued)

C. SIP 445.667 *(Federally Enforceable SIP Requirement)*
Excess Emissions: Scheduled Maintenance; Testing; Malfunctions

1. Scheduled maintenance or testing approved by the Director or repairs which may result in excess emissions of air contaminants prohibited by SIP 445.430 to 445.846, inclusive, must be performed during a time designated by the Director as being favorable for atmospheric ventilation.
2. The Director shall be notified in writing of the time and expected duration at least 24 hours in advance of any scheduled maintenance or repairs which may result in excess emissions of air contaminants prohibited by NAC 445.430 to 445.846, inclusive.
3. The Director must be notified within 24 hours after any malfunction, breakdown or upset of process or pollution control equipment or during startup of such equipment. Phone (775) 687-9350.
4. The owner or operator of an affected facility shall provide the Director, within 15 days after any malfunction, breakdown, upset, startup or human error sufficient information to enable the Director to determine the seriousness of the excess emissions. The submission must include as a minimum:
   a. The identity of the stack and/or other emission point where the excess emission occurred.
   b. The estimated magnitude of the excess emissions expressed in opacity or in the units of the applicable emission limitation and the operating data and methods used in estimating the magnitude of the excess emissions.
   c. The time and duration of the excess emissions.
   d. The identity of the equipment causing the excess emissions.
   e. If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunctions.
   f. The steps taken to limit the excess emissions.
   g. Documentation that the air pollution control equipment, process equipment or processes were at all times maintained and operated, to a maximum extent practicable, in a manner consistent with good practice for minimizing emissions.

D. SIP Article 2.5.4 *(Federally Enforceable SIP Requirement)*

1. Breakdown or upset, determined by the Director to be unavoidable and not the result of careless or marginal operations, shall not be considered a violation of these regulations.

**************End of General Operating Conditions***************

Issued to: Barrick Cortez, Inc., as Permittee

Section IV. Federal Regulations and Applicable Requirements

A. The following provisions are applicable requirements of this Operating Permit:

1. The Permittee will comply with all applicable provisions of:
   a. 40 CFR Part 60.1 - 60.19 - Standards of Performance for New Stationary Sources - General Provisions;
   b. 40 CFR Part 61.01 - 61.19 - National Emission Standards for Hazardous Air Pollutants - General Provisions;
   c. 40 CFR Part 61.140 - 61.157 - National Emission Standard for Asbestos;
   d. 40 CFR Part 63.1 - 63.15 - National Emission Standards for Hazardous Air Pollutants for Source Categories - General Provisions;
   e. 40 CFR Part 70 - State Operating Permit Programs.
2. This provision is applicable if the Permittee is subject to 40 CFR Part 68 - Chemical Accident Prevention Provisions. The Permittee shall submit a risk management plan (RMP) by dates specified in 40 CFR 68.10. The Permittee shall certify compliance with these requirements as part of the annual compliance certification as required by 40 CFR Part 70.
3. This provision is applicable if the Permittee is subject to 40 CFR Part 82. The Permittee will comply with all provisions of 40 CFR Part 82. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156. Equipment used during maintenance, service, repair, or disposal of appliances must meet the standards for recycling and recovery equipment in accordance with 40 CFR 82.158. Persons performing maintenance, service, repair or disposal of appliances must be certified by a certified technician pursuant to 40 CFR 82.161.

**************End of Federal Regulations and Applicable Requirements***************

Issued to: Barrick Cortez, Inc., as Permittee

Section V. General Monitoring, Recordkeeping, and Reporting Requirements

A. NAC 445B.315.3.(b) *Part 70 Program*
The Permittee shall retain records of all required monitoring data and supporting information for 5 years from the date of the sample collection, measurement, report or analysis. Supporting information includes, but is not limited to, all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation.

B. NAC 445B.3405.1.(d) *Part 70 Program*
The Permittee will record:
1. Monitoring information required by the conditions of this permit including the date, the location and the time of the sampling or the measurements and the operating conditions at the time of the sampling or measurements; and
2. The date on which the analyses were performed, the company that performed them, the analytical techniques that the company used, and the results of such analyses.

C. NAC 445B.3405.1.(e) *Part 70 Program*
The Permittee will:
1. Promptly report to the Director all deviations from the requirements of this Operating Permit; and
2. Report to the Director the probable cause of all deviations and any action taken to correct the deviations. For this Operating Permit, prompt is defined as submittal of a report within 15 days of the deviation. This definition does not alter any reporting requirements as established for reporting of excess emissions as required under NAC 445B.232 and under **Section III.B** of this permit, or for reporting of an emergency (as defined by NAC 445B.326) under **Section I.I**. of this permit; and
3. Submit reports of any required monitoring every 6 months, within 8 weeks after June 30 and December 31 of each calendar year. The reports must contain a summary of the data collected as required by all monitoring, recordkeeping and compliance requirements and as specified in sections **VI** and **VII** of this operating permit.

D. NAC 445B.315.3.(h) *Part 70 Program*
The Permittee will submit yearly reports including, but not limited to, throughput, production, fuel consumption, hours of operation, and emissions. These reports will be submitted on the form provided by the Bureau of Air Pollution Control for all emission units/systems specified on the form. The completed form must be submitted to the Bureau of Air Pollution Control no later than March 1 annually for the preceding calendar year, unless otherwise approved by the Bureau of Air Pollution Control.

E. NAC 445B.3405.1.(j) *Part 70 Program*
1. The Permittee will submit a compliance certification for all applicable requirements, reflecting the terms and conditions of the permit, to the Administrator of the Division of Environmental Protection and the Administrator of USEPA annually, on or before March 1 for the preceding calendar year. The compliance certification must include:
   a. An identification of each term or condition of the Operating Permit that is the basis of the certification;
   b. The status of the stationary source's compliance with any applicable requirement;
   c. A statement of whether compliance was continuous or intermittent;
   d. The method used for determining compliance; and
   e. Any other facts the Director determines to be necessary to determine compliance.

Issued to: Barrick Cortez, Inc., as Permittee

Section V. General Monitoring, Recordkeeping, and Reporting Requirements (continued)

F. NAC 445B.063 *State-Only Requirement*
The Department may use any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed, to determine excess emissions.

G. NAC 445B.265 *(Federally Enforceable SIP Requirement)*
Monitoring systems: Records; Reports

1. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.
2. The Permittee required to install a continuous monitoring system shall submit a written report of excess emissions to the director for every calendar quarter. All quarterly reports must be postmarked by the 30th day following the end of each calendar quarter and must include the following information:
   a. The magnitude of excess emissions computed in accordance with NAC 445B.256 to 445B.267, inclusive, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
   b. Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility.
   c. The nature and cause of any malfunction, if known, the corrective action taken or preventative measures adopted.
   d. Specific identification of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of any repairs or adjustments that were made.
      - When no excess emissions have occurred and the continuous monitoring system has not been inoperative, repaired or adjusted, such information shall be included in the report.
3. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain a file of all measurements, including:
   a. Continuous monitoring systems, monitoring devices and performance testing measurements;
   b. All continuous monitoring system performance evaluations;
   c. All continuous monitoring systems or monitoring device calibration checks;
   d. Adjustments and maintenance performed on these systems or devices; and
   e. All other information required by NAC 445B.256 to 445B.267, inclusive, recorded in a permanent form suitable for inspection.
      - The file shall be retained for at least 2 years following the date of the measurements, maintenance, reports and records.

************End of General Monitoring and Recordkeeping Conditions***************